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|       |    |     |     |



Application/Control No.

10/662,508 Examiner

Thao X. Le

Applicant(s)/Patent under Reexamination

TAKAYAMA ET AL.

Art Unit

2814

Rejected Allowed

(Through numeral) Cancelled Restricted

Non-Elected N Interference

Appeal 0 Objected

| Cla   | sim   | Date   |  |  |          |  |  |  |              |               |  |  |  |  |
|-------|---|--|--|--|----------|--|--|--|--------------|---------------|--|--|--|--|
| Final | Original  | 1/2/05   | 6/17/05  | 11/18/05   | 3/29/06  | 8/31/06  |  |  |              |               |  |  |  |  |
|       | 1   | v  | v  | v  | v        | v  |  |  |              |               |  |  |  |  |
|       | 1<br>2<br>3<br>4<br>5   | ٧  | v  | ٧  | ٧        | V  |  |  |              |               |  |  |  |  |
|       | 3   | ٧  | v  | ٧  | >        | V  |  |  |              |               |  |  |  |  |
|       | 4   | V  | v  | ٧  | ٧        | 7  |  |  |              | <u> </u>      |  |  |  |  |
|       | 5   |  | ٧  | ٧  | ٧        |  | <u> </u>   |  | _            | <u> </u>      |  |  |  |  |
|       | 6   | ٧  | V  | ٧  | ٧        | V  |  |  |              |               |  |  |  |  |
|       | 7   | <u> </u> -                                       | 1  | 1  | 1        | 1  | _  |  |              | <u> </u>      |  |  |  |  |
|       | 8   | <u>  -</u>                                       | 1  | 1  | 1        | 1  |  |  | H            | <u> </u>      |  |  |  |  |
|       | 40  | <u>  -</u>                                       | 1  | 1  | 1        | 1  | <u> </u>   | _  |              |               |  |  |  |  |
|       | 10  | ·  | 1  | 1  | 1        | 1  | _  | -  | $\vdash$     | -             |  |  |  |  |
|       | 12  | 1  | _  | _  |          | 1  | -  | H  | -            | -             |  |  |  |  |
|       | 9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28 | V  | v  | v  | V        | _  |  | -  |              | -             |  |  |  |  |
|       | 14  | V  | V  | v  | V        | V  | $\vdash$   | <del>                                     </del> | $\vdash$     | $\vdash$      |  |  |  |  |
|       | 15  | v  | v  | v  | v        | v  | Η-   | ┢  | <del> </del> | <del> </del>  |  |  |  |  |
|       | 16  | Ė  | <del>                                     </del> | 1  | 7        | <del>                                     </del> | Η-   | Ι-   |              | ┞             |  |  |  |  |
|       | 17  | v  | v  | v  | v        | v  | $\vdash$   | <del>                                     </del> |              | Г             |  |  |  |  |
|       | 18  | v  | V  | v  | v        | V  |  | Г  |              | Г             |  |  |  |  |
|       | 19  | v  | v  | ٧  | ٧        | 7  |  |  |              |               |  |  |  |  |
|       | 20  | v  | v  | v  | v        | 7  | Г  |  |              |               |  |  |  |  |
|       | 21  | ٧  | ٧  | ٧  | v        | ٧  |  |  |              |               |  |  |  |  |
|       | 22  | ٧  | ٧  | ٧  | ٧        | ٧  |  |  |              |               |  |  |  |  |
|       | 23  | ٧  | ٧  | ٧  | v        | V  |  |  |              |               |  |  |  |  |
|       | 24  | ٧  | ٧  | ٧  | ٧        | ٧  |  |  |              |               |  |  |  |  |
|       | 25  | v  | v  | v  | V        | ٧  |  | L  | <u> </u>     |               |  |  |  |  |
|       | 26  | V  | ٧  | V  | v        | v  | <u> </u>   | _  |              |               |  |  |  |  |
|       | 27  | V  | ٧  | V  | ٧        | ٧  |  |  | <u> </u>     |               |  |  |  |  |
|       | 28  | V  | ٧  | ٧  | ٧        | v  | _  | <u>.                                    </u>     | <u> </u>     |               |  |  |  |  |
|       | 29  | _  | ٧  | ٧  | V        | 1  | <u> </u>   | ├  | ├-           | ļ             |  |  |  |  |
|       | 30<br>31  | $\vdash$   | v  | V  | V        | 1  | ⊢  | <del>                                     </del> |              | ├-            |  |  |  |  |
|       | 31  | ⊢  | v  | V  | V        | V  | $\vdash$   | $\vdash$   | $\vdash$     | -             |  |  |  |  |
|       | 32<br>33  | -  | v  | v  | 7        | 7  | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$      |  |  |  |  |
|       | 34  | $\vdash$   | v  | V  | 1        | 7  | $\vdash$   | $\vdash$   | <u> </u>     | <del> -</del> |  |  |  |  |
|       | 35  | $\vdash$   | v  | v  | 1        | 1  | H  |  | $\vdash$     | $\vdash$      |  |  |  |  |
|       | 35<br>36  | <del>                                     </del> | <u> </u>   | Ť  | v        | v  | <del>                                     </del> | $\vdash$   | $\vdash$     | <del> </del>  |  |  |  |  |
|       | 37  | $\vdash$   | $\vdash$   | <del>                                     </del> | v        | v  |  | $\vdash$   | 一            | $\vdash$      |  |  |  |  |
|       | 38  |  | $\vdash$   | <u> </u>   | Ť        | <u> </u>   | $\vdash$   | $\vdash$   |              |               |  |  |  |  |
|       | 38<br>39  |  | Г  | <u> </u>   | $\vdash$ |  | Γ  |  |              |               |  |  |  |  |
|       | 40  |  |  |  |          |  |  |  |              |               |  |  |  |  |
|       | 41  |  |  |  |          |  |  |  |              |               |  |  |  |  |
|       | 42  |  |  |  |          |  |  |  |              |               |  |  |  |  |
|       | 43  | L  |  |  |          | <u> </u>   |  |  | L            |               |  |  |  |  |
|       | 44  |  |  | L.   |          |  |  |  | L.           |               |  |  |  |  |
|       | 45  |  |  |  | <u> </u> | _  | <u> </u>   | <u> </u>   | <u> </u>     | _             |  |  |  |  |
|       | 46  | <u> </u>   | <u> </u>   | <u> </u>   | <u> </u> | <u> </u>   | <u> </u>   | L  |              | _             |  |  |  |  |
|       | 47  | <u> </u>   | _  | <u> </u>   | ├        | ├  | ⊢  | <u> </u>   | ├            | _             |  |  |  |  |
|       | 48  | <b>├</b>   | <del> </del>                                     | <u> </u>   | ├—       | ├  | -  | <u> </u>   |              |               |  |  |  |  |
|       | 49  | <del> </del>                                     | $\vdash$   | -  | $\vdash$ | -  | $\vdash$   | <del> </del>                                     | $\vdash$     | $\vdash$      |  |  |  |  |
|       | - 711   |  |  |  |          |  |  |  |              |               |  |  |  |  |

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|--|---------|----------|----------|--|----------|---------------|---------------|---|--|----------|----------|------|-------|----------|----------|----------|---|---|----------|--|-------------------------------------|----------|----------------|
| Section   Sect |         | Original | 1/2/05   | 6/17/05  | 11/18/05 | 3/29/06       | 8/31/06       |   |  |          |          |      | Final | Original |          |          |   |   |          |  |                                     |          |                |
| 3  |         |          | ٧        | ٧  | ٧        | ٧             | ٧             |   |  |          |          | ]    |       |          |          |          |   |   |          |  |                                     |          |                |
| 4  |         | 2        | >        | ٧  | ٧        | ٧             |               |   |  |          |          |      |       | 52       |          |          |   |   |          |  |                                     |          |                |
| 5  | $\perp$ |          | >        | ٧  | ٧        | ٧             | >             |   |  | L        |          |      |       |          |          |          |   |   |          |  |                                     |          |                |
| 6  |         | 4        | ٧        | ٧  | ٧        | ٧             | >             |   |  |          |          |      |       | 54       |          |          |   |   |          |  |                                     |          |                |
| T  |         | 5        | ٧        | V  | ٧        | ٧             | /             |   |  | <u></u>  | L        |      |       | 55       | Ш        |          |   |   |          |  |                                     |          |                |
| S  |         | 6        | ٧        | v  | ٧        | ٧             | ٧             |   |  |          |          |      |       | 56       |          |          |   |   |          |  |                                     |          |                |
| 9  | ┙       |          | -        | /  | 1        | 1             | -             |   |  | <u> </u> |          |      |       |          | Ш        |          |   |   |          | L  |                                     |          |                |
| 10   |         |          | •        | 1  | 1        | 1             |               |   |  |          |          |      |       |          |          |          |   |   |          |  |                                     |          |                |
| 111 - / / / / / /  | ┙       |          | -        | 1  |          | _             |               | _ |  |          | L        |      |       |          |          |          |   |   |          |  |                                     |          |                |
| 12   | ╛       | 10       | Ŀ        | 1  | 1        | /             | _             |   |  | _        | _        |      |       | 60       |          |          |   |   |          | L  |                                     |          |                |
| 13   | $\perp$ |          | <u> </u> |  | 1        | /             | -             |   |  | L        | L        |      |       |          |          |          |   |   | <u>_</u> |  |                                     |          |                |
| 14   v   | $\perp$ | 12       | ٧        | ٧  | ٧        | ٧             | 1             |   |  | <u> </u> | _        | ا. ا |       | 62       |          | _        |   |   |          |  |                                     |          | _              |
| 15   | 4       | 13       | V        | ٧.   | ٧        | ٧             | ٧             |   |  | _        |          |      |       | 63       |          | _        |   |   | _        |  |                                     | _        |                |
| 16   | _       | 14       | -        | -  | _        | _             | -             |   | <u></u>  | <u> </u> | _        |      |       | 64       | Ш        |          |   |   | _        |  | Ш                                   |          |                |
| 17   v   | 4       |          | ٧        | -  |          |               |               |   |  | ļ        | _        |      |       |          |          |          |   |   |          |  |                                     |          | ᅴ              |
| 18   v   | 4       | 16       | -        | _  |          | $\overline{}$ | _             | _ | <u> </u>   | <u> </u> | <u> </u> | l    |       |          |          | _        | _ |   | _        | _  | $oxed{oxed}$                        |          | _              |
| 19   | 4       |          | -        |  |          | _             |               |   | _  | <u> </u> | <u> </u> |      |       |          |          | _        |   |   |          |  |                                     |          |                |
| To   To   To   To   To   To   To   To  | 4       |          |          | -  |          | _             | _             |   |  |          | _        |      |       |          | Ш        | _        |   |   |          |  |                                     |          | ш              |
| 21   v   | 4       |          | _        | _  |          | _             |               |   |  |          | ļ        |      |       | 69       |          | _        |   |   |          |  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |          |                |
| 1  | 4       |          |          |  | _        | _             | -             |   | _  | <u> </u> | _        |      |       |          |          |          |   |   |          |  |                                     |          |                |
| 23    v   v   v   v   v   v   v   v   v  | 4       |          |          | ٧  | ٧        | ٧             | -             |   |  | L_       | _        |      |       |          | Ш        | _        |   |   |          |  |                                     |          |                |
| 24   v   | 4       |          |          | _  |          | -             | -             | _ | _  | ļ        | _        | Į    |       | 72       |          |          | _ | _ | _        | _  | L                                   |          |                |
| 25    v   v   v   v   v   v   v   v   v  | 4       |          |          | _  | _        | -             | -             |   |  | _        | L        |      |       |          | Щ        | _        |   |   |          |  | _                                   |          | $\Box$         |
| 26   v   | 4       |          | -        | ٧  | ٧        | ٧             | _             | _ | L  | _        |          | l    |       |          |          | _        |   |   |          |  | ļ                                   |          | Ш              |
| 27   v   | 4       |          | -        | -  |          |               | -             |   | _  |          |          | Į l  |       | 75       | $\sqcup$ |          |   |   | _        | _  | <u> </u>                            |          |                |
| 28   v   | 4       | 26       |          | _  | _        |               | _             |   | _  |          | _        |      |       |          |          | _        |   |   |          | _  | _                                   |          | Щ              |
| 29   v   v   v   red   | 4       |          | -        | -  |          |               | -             | _ | _  | <u> </u> | -        | l    |       |          | -        |          |   |   | _        |  | L                                   |          | $\blacksquare$ |
| 30   | 4       | 28       | ٧        | _  | _        | _             | $\overline{}$ |   | <u> </u>   | _        |          | ļ    |       |          | 1        |          | _ |   | _        | _  | _                                   |          |                |
| 31   V   | 4       |          | <u> </u> |  |          | _             | _             | _ | <u> </u>   | <u> </u> |          |      |       |          |          | $\dashv$ |   |   |          | <u> </u>   | _                                   |          |                |
| 32   v   v   v   v   section   <   | 4       | 30       |          |  |          | -             | $\overline{}$ | _ | _  | -        | ├        | ł    |       | 80       | $\vdash$ | $\dashv$ |   |   |          | <u> </u>   | L                                   |          |                |
| 33   v   v   r   r   83   84   84   85   85   85   85   86   87   88   87   88   88   88   89<  | +       |          | ┝        | -  |          |               |               | _ | ⊢  | ⊢        |          |      |       | 0.1      | $\vdash$ | -        | _ | _ | -        | -  |                                     | $\vdash$ | $\dashv$       |
| 34   v   v   t   84   85     35   v   v   t   85   86     36   v   v   86   87   88     37   v   v   88   88   88     39   89   90   90   90   90   90   91   91   91   92   92   93   93   93   93   93   93   94   94   94   94   94   94   94   94   95   96   96   96   97   98   98   99   90 <td>+</td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>_</td> <td>_</td> <td>⊢</td> <td>⊢</td> <td><u> </u></td> <td>{</td> <td></td> <td></td> <td><math>\vdash</math></td> <td>-</td> <td></td> <td></td> <td>_</td> <td>⊩</td> <td></td> <td></td> <td><math>\dashv</math></td>  | +       |          |          | -  |          | -             | _             | _ | ⊢  | ⊢        | <u> </u> | {    |       |          | $\vdash$ | -        |   |   | _        | ⊩  |                                     |          | $\dashv$       |
| 35   v   v   v   v   86   86   86   87   88   88   88   88   88   88   88   88   89<  | +       | 33       | $\vdash$ |  | _        |               |               | _ | ⊢  | <u> </u> | -        | -    |       | 03       |          | $\dashv$ | _ | _ |          | $\vdash$   | -                                   |          |                |
| 36   v v   86     37   v v   87     38   88   88     39   90   90     41   91   91     42   92   92     43   93   93     44   94   94     45   95   95     46   96   97     48   98   99   | +       | 35       | $\vdash$ | -  | -        |               | $\overline{}$ |   |  | ⊢        | -        | 1    |       |          |          |          |   | _ |          | $\vdash$   | -                                   |          |                |
| 37   v v   87     38   88   88     39   90   90     40   90   90     41   91   92     43   93   93     44   94   94     45   95   95     46   96   97     48   98   99   | +       | 36       | -        | ·  | •        | _             | -             |   | $\vdash$   | ┝        | ├─       | 1    |       | 86       | -        |          |   |   | -        |  | -                                   | H        | $\vdash$       |
| 38   88     39   90     40   90     41   91     42   92     43   93     44   94     45   95     46   96     47   97     48   98     49   99  | +       |          | ┝        | -  |          | _             | _             |   | $\vdash$   | ⊢        | -        | 1    |       | 87       | H        | -        |   |   | _        |  | $\vdash$                            |          | $\dashv$       |
| 39   89     40   90     41   91     42   92     43   93     44   94     45   95     46   96     47   97     48   98     49   99  | +       |          |          |  |          | <u> </u>      | \ <u> </u>    | — | ├─   | -        |          | 1    |       |          | $\vdash$ | -        |   |   |          | -  |                                     | H        | $\dashv$       |
| 40   90     41   91     42   92     43   93     44   94     45   95     46   96     47   97     48   98     49   99  | +       |          | $\vdash$ | -  |          | _             | ┝             | _ |  | -        | -        | 1    |       |          |          | $\dashv$ |   |   | $\vdash$ | $\vdash$   | $\vdash$                            |          | $\dashv$       |
| 41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99  | $^{+}$  | 40       |          |  | _        | -             | $\vdash$      |   | ├─   | $\vdash$ | $\vdash$ | 1    |       | 90       |          |          |   |   | <u> </u> | <del>                                     </del> | -                                   | _        | $\dashv$       |
| 42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99  | 7       |          |          |  | $\vdash$ |               | $\vdash$      |   | $\vdash$   |          | -        | 1    |       |          | Н        |          |   |   | $\vdash$ |  | -                                   | -        | $\dashv$       |
| 43 93   44 94   45 95   46 96   47 97   48 98   49 99  | 十       |          |          | -  | _        |               | $\vdash$      |   | $\vdash$   | $\vdash$ |          | 1    |       |          |          | $\neg$   | _ | _ | $\vdash$ | $\vdash$   | Н                                   |          | $\dashv$       |
| 44 94   45 95   46 96   47 97   48 98   49 99  | 7       |          | _        |  | $\vdash$ |               |               |   | <del>                                     </del> | _        | Т        | 1    |       |          | $\Box$   |          |   |   |          |  |                                     |          | $\dashv$       |
| 45 95   46 96   47 97   48 98   49 99  | 7       |          | $\vdash$ | <del>                                     </del> | -        |               |               | _ | $\vdash$   |          |          | 1    |       |          | H        |          |   | _ | $\vdash$ | ┢  | _                                   | _        |                |
| 46 96   47 97   48 98   49 99  | 7       |          | $\vdash$ |  | _        |               |               |   | $\vdash$   | $\Box$   |          | 1    |       |          | П        | $\neg$   |   |   | Г        | $\vdash$   |                                     |          |                |
| 47   | 7       |          |          |  | $\Box$   |               | Г             |   | $\overline{}$                                    |          | Г        | 1    |       |          | П        |          |   |   | Г        |  |                                     |          |                |
| 48 98 99 99 99 99 99 99 99 99 99 99 99 99  | 寸       |          |          |  |          |               |               |   | l  | П        | Г        | 1    |       |          | П        |          |   |   | l        |  | Г                                   |          |                |
| 49 99 99   | 7       |          |          | Г  | $\Box$   |               |               |   |  |          |          | 1    |       |          | П        |          |   |   |          |  | Г                                   |          | $\Box$         |
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|  | _       | 50       | L        |  | Ĺ        |               |               |   |  |          |          | ]    |       |          |          |          |   |   |          |  |                                     |          |                |

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